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Communications, Computers and Signal Processing, 1993., IEEE Pacific Rim
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A new source coding method based on LZW adopt the least recently used deletion heuristic

Hayashi, S.   Kubo, J.-i.   Yamazato, T.   Sasase, I.
Dept. of Electr. Eng., Keio Univ., Yokohama;

Abstract:
A new source coding method based on the Lempel-Ziv-Welch (LZW) method assigns variable-length codewords instead of LZW's fixed-length codewords. proposed method has a least-recently-used (LRU) deletion heuristic queuing each entry of which has a different parsed string. The queuing buffer is sorted according to the move-to-front rule for each time of encoding/decoding. The proposed method yields better performance in terms of compression ratio wit degradation of the characteristics of LZW

Index Terms:
Lempel-Ziv-Welch method   buffer storage   compression ratio   data compression   data structures   heuristic programming   least recently used deletion heuristic   move-to-front performance   queueing theory   queuing buffer   sorting   source coding   variable length codes   variable-length codewords   Lempel-Ziv-Welch method   buffer storage   compres ratio   data compression   data structures   heuristic programming   least recently used d heuristic   move-to-front rule   performance   queueing theory   queuing buffer   sorting   coding   variable length codes   variable-length codewords

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